Index of Claims

| Appl | ication | /Control | No. |
|------|---------|----------|-----|
|      |         |          |     |

10/664,931 Examiner

Prasad R. Akkapeddi

Applicant(s)/Patent under Reexamination

CHAE ET AL.

Art Unit

2871

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla       | aim      | Date      |           |         |         |              |                         |          | Cla      | aim      | Date |       |  |          |                   |         |          | Claim   |                |          | Date            |               |       |          |    |            |          |                 |   |          |           |          |          |          |           |
|-----------|----------|-----------|-----------|---------|---------|--------------|-------------------------|----------|----------|----------|------|-------|--|----------|-------------------|---------|----------|---------|----------------|----------|-----------------|---------------|-------|----------|----|------------|----------|-----------------|---|----------|-----------|----------|----------|----------|-----------|
|           | а        |           |           |         |         |              |                         |          |          |          |      |       |  | <u></u>  |                   |         |          |         |                |          |                 |               |       | l _      |    | ㅁ          |          |                 |   |          |           |          |          | ļ        |           |
| Final     | Original | 3/6/62    |           |         |         |              | 1                       | - 1      |          |          |      |       | Final  | Original |                   |         |          | ł       | 1              |          |                 | -             |       | ii<br>ii | 3  | Original   |          | Ш               |   |          |           |          | ĺ        | ł        |           |
| 证         | Jri      | 8         |           |         |         |              | -1                      |          |          |          |      |       | iI.  | 5        |                   |         |          |         |                |          |                 |               |       | ľ        | -  | ē          |          |                 |   |          |           |          |          | - 1      |           |
|           |          | L         | $\perp$   | $\perp$ | _       | _            | 4                       | 4        |          |          |      |       |  |          | ╙                 | ╀       | $\bot$   | 4-      | ↓_             |          |                 |               | -     | ╙        | _  |            |          | Н               |   |          | _         |          |          |          | 긕         |
|           | 1_       | +         | $\bot$    | $\perp$ | $\perp$ | $\perp$      | 4                       | -        |          |          |      |       |  | 51       | ┆                 | $\perp$ | +        | +       | ╄              | Н        | <u> </u>        | -             | -     | $\vdash$ |    | 101        | _        | $\vdash$        |   |          | _         | Н        | -        | $\dashv$ | $\dashv$  |
|           | 2        | ļ-i       | 1         | $\bot$  | 4       | 4            | 4                       | -        | -        | _        |      |       |  | 52       | H                 | Щ.      | 1        | +       | ╀              | Н        |                 | +             | -     | $\vdash$ |    | 102<br>103 | _        | Н               |   |          |           |          | $\dashv$ | $\dashv$ | $\dashv$  |
|           | 3        | Н         | ╀         | +       | +       | +            | -                       | -        |          |          | _    |       |  | 53       | Н                 | #       | ╁        | +-      | $\vdash$       | Н        |                 |               | -     | ⊢        |    | 104        | -        | Н               |   | -        |           | $\cdot$  | +        | $\dashv$ | $\dashv$  |
|           | 4        | Н         | ┼-        | +       | +       | +            | +                       | $\dashv$ |          |          |      |       |  | 54<br>55 | Н                 | +       | +        | +       | ╁              | H        | -+              | +             | -     | ⊢        | +. | 105        |          | $\vdash$        | _ |          |           | -        | -        | $\dashv$ | ᅱ         |
|           | 5        | H         | ╀         | +       | ╁       | +            | +                       | +        |          |          |      |       |  | 56       | Н                 | ╀       | ╁        | +       | ╁              | -        |                 | +             | -     | ┝        |    | 106        | $\dashv$ | $\vdash$        |   |          |           | -        |          | $\dashv$ | $\dashv$  |
|           | 6<br>7   | Н         | ╁         | +       | +-      | +            | +                       | +        |          |          | -    |       | -  | 57       | Н                 | +       | +        | +       | ╁              |          | -               |               | -     | ┝        |    | 107        | $\dashv$ | Н               |   | Н        |           |          | +        | -        | $\dashv$  |
|           | 8        | H         | ╁         | ┿       | +       | +            | +                       | $\dashv$ | -        |          |      |       |  | 58       | Н                 | ╫       | +        | +       | ╫              | -        | -+              | +             | -     | ⊢        |    | 108        | -        | $\vdash$        |   |          |           |          | -        | $\dashv$ | $\dashv$  |
|           | 9        | Н         | ╁         | ╁       | ╁       | +            | +                       | $\dashv$ | $\dashv$ |          | _    |       |  | 59       | Н                 | +       | ┰        | +       | ╁              | H        |                 | +             | 1     | ┝        |    | 109        | _        | H               |   |          |           |          |          | $\dashv$ | $\dashv$  |
|           | 10       | Н         | +         | ╁       | +-      | +            | +                       | $\dashv$ | $\dashv$ | $\vdash$ |      |       | -  | 60       | H                 | +       | +        | +-      | +              | H        | $\vdash$        |               | 1     | $\vdash$ | +- | 110        | $\dashv$ | $\vdash$        |   |          | $\neg$    | $\vdash$ | $\dashv$ | $\dashv$ | ヿ         |
| -         | 11       | H         | +         | +       | +       | +            | +                       | -+       | $\dashv$ | $\vdash$ | _    |       | <del>                                     </del> | 61       | H                 | +       | +        | 十       | +-             | Н        | $\dashv$        | +-            | 1     | $\vdash$ |    | 111        | $\dashv$ | H               | _ | $\vdash$ | $\vdash$  |          | 一        | コ        | $\dashv$  |
|           | 12       | Н         | +         | +       | +       | +            | +                       | $\dashv$ | $\dashv$ | $\vdash$ |      |       | <u> </u>   | 62       | H                 | +       | +        | +       | $t^-$          | Н        | $\vdash$        | +             | 1     | $\vdash$ |    | 112        | $\neg$   | H               |   |          | $\exists$ | П        | 寸        | 寸        | 一         |
|           | 13       | H         | +         | ╅       | +       | +            | +                       | $\dashv$ | $\dashv$ | $\vdash$ |      |       |  | 63       | H                 | $^{+}$  | $\top$   | +       | $\vdash$       | Н        | $\vdash$        | $\dashv$      | 1     | $\vdash$ | 十. | 113        |          | П               |   |          |           |          | $\neg$   | $\dashv$ | $\neg$    |
| -         | 14       | H         | ╁         | +       | +-      | +            | $\top$                  | $\dashv$ | $\neg$   |          | _    |       |  | 64       | #                 | +       | 1        | $\top$  | T              | П        |                 | $\neg \vdash$ | 1     | Г        |    | 114        |          | П               |   |          |           |          | $\neg$   | $\dashv$ | $\neg$    |
|           | 15       | H         | $^{+}$    | $\top$  | +-      | +            | $\top$                  | 1        |          |          |      |       |  | 65       | $\dagger \dagger$ | +       | 1        | 1       | T              | П        |                 |               | 1     | П        | 7  | 115        |          | П               | • |          |           |          | $\dashv$ | $\neg$   | $\exists$ |
|           | 16       | H         | ✝         | ╅       | +       | $\top$       | $\top$                  | $\dashv$ | 寸        | $\Box$   |      |       |  | 66       | Ħ                 | 1       | 1        | 1       | 1              | П        |                 | $\top$        | 1     | Г        | 7  | 116        |          | П               |   |          |           |          |          | コ        |           |
|           | 17       | Н         | †         | $\top$  | $\top$  | +            | $\top$                  | 寸        | 寸        | $\vdash$ |      |       |  | 67       | Ħ                 | T       | T        | 1       |                | П        |                 |               | 1     | Г        | 1  | 117        |          | П               |   |          |           |          |          | ╗        |           |
|           | 18       | Ħ         | T         | 十       | $\top$  | $\top$       | 十                       | $\neg$   | 寸        |          |      |       |  | 68       | 11                | 1       | 1        | 1       | 1              | П        |                 | 7             | 7     |          | 1  | 118        |          |                 |   |          |           |          |          | $\Box$   |           |
|           | 19       | H         | +         | 十       | T       | $\top$       | $\dashv$                | $\dashv$ | 一        |          |      |       |  | 69       | 1                 | $\top$  | 1        | 1       |                |          |                 | $\top$        | 1     |          | 1  | 119        |          |                 |   |          |           |          | T        | $\neg$   |           |
|           | 20       | H         | $\dagger$ | _       | +       | $\top$       | 寸                       | 7        | $\neg$   |          |      |       |  | 70       | ÷                 |         | $\top$   | Τ       |                | П        |                 |               | 1     | Г        | 7  | 120        |          | П               |   |          |           |          |          |          |           |
|           | 21       | П         | T         | 十       | ╅       | ┪            | $\top$                  | 寸        |          |          |      |       |  | 71       | T                 | $\top$  | 1        |         |                |          |                 |               | ١     |          | 7  | 121        |          | П               |   |          |           |          |          |          |           |
|           | 22       | H         | $\dagger$ | ┪       | 1       | $\top$       | $\top$                  | T        |          |          |      |       |  | 72       | Τ                 |         | T        |         |                |          |                 |               | 1     |          | 7  | 122        |          | П               |   |          |           |          |          |          |           |
|           | 23       | П         | T         | 十       | ╅       | 1            | 7                       | 1        |          |          |      |       |  | 73       | Τ                 |         | 1        | T       | 1              |          |                 | _             | ٦     | Г        | Τ, | 123        |          | П               |   |          |           |          |          |          |           |
|           | 24       | Ħ         | T         |         | T       | $\top$       | 7                       |          |          |          |      |       |  | 74       | Τ                 | Τ       | T        | T       | Т              |          |                 | $\neg \vdash$ | 1     | Г        | Τ, | 124        |          | П               |   |          |           |          |          |          |           |
|           | 25       | П         | T         |         | $\top$  | 1            | $\top$                  |          |          |          |      |       |  | 75       | Τ                 | T       |          | 7       | Т              |          |                 | $\top$        | 1     | Г        | 1  | 125        |          |                 |   |          |           |          |          |          |           |
|           | 26       | П         | T         | 丁       | 7       | $\top$       | 寸                       |          |          |          |      |       |  | 76       | Γ                 |         |          |         |                |          |                 |               |       |          | 7  | 126        |          |                 |   |          |           |          |          |          |           |
|           | 27       | П         | Т         |         |         | Т            | $\neg$                  |          |          |          |      |       |  | 77       |                   | $\perp$ |          |         |                |          |                 |               |       |          |    | 127        |          |                 |   |          |           |          |          | Ш        |           |
|           | 28       | П         |           |         |         |              | Т                       |          |          |          |      |       |  | 78       |                   |         |          |         |                |          |                 |               |       |          |    | 128        |          |                 |   |          |           |          | $\perp$  | _        |           |
|           | 29       | П         |           |         |         | Т            | Т                       |          |          |          |      |       |  | 79       |                   |         |          |         |                |          |                 |               |       |          |    | 129        |          |                 |   |          |           |          | $\perp$  |          |           |
|           | 30       | П         |           |         |         |              | $\Box$                  |          |          |          |      |       |  | 80       |                   |         |          | $\perp$ |                |          |                 |               |       |          |    | 130        |          | Ш               |   |          |           |          | $\perp$  | _        |           |
|           | 31       | $\Box$    | Ι         | Ι       |         | I            | $oldsymbol{\mathbb{I}}$ |          | $\Box$   |          |      |       |  | 81       |                   | I       |          |         |                |          |                 |               | 1     | L        |    | 131        |          | Ш               |   |          |           | Ш        | _        |          |           |
|           | 32       | $\square$ |           | $\perp$ |         | $\perp$      |                         |          |          |          |      |       |  | 82       | L                 | 1       | $\perp$  | $\perp$ | 1              | Ш        |                 |               | 4     | $\vdash$ |    | 132        | $\Box$   | Щ               |   |          |           | Щ        | _        | _        | _         |
|           | 33       | Ц         | 1         | _       | $\perp$ | $\perp$      | $\perp$                 |          | _        |          |      |       |  | 83       | $\perp$           | 1       | <u> </u> | $\perp$ | _              | Ш        |                 | _ _           | 4     | <u> </u> |    | 133        |          | Ш               |   | $\Box$   |           | Ш        | _        | _        | _         |
|           | 34       | Ц         | ╀         | $\perp$ | $\perp$ | $\perp$      | $\perp$                 | $\dashv$ |          |          |      |       |  | 84       | $\perp$           | $\perp$ | $\perp$  | _       | _              | Ш        | oxdot           |               | 4     | $\vdash$ |    | 134        |          | Ш               |   |          |           | Щ        | _        | $\dashv$ | $\dashv$  |
|           | 35       | Ш         | 1         | $\bot$  | $\perp$ | $\downarrow$ | Ц.                      | _        | _        |          |      |       |  | 85       | 1                 | $\perp$ | $\bot$   | _       | <del> </del> _ | Ш        | $\sqcup$        |               | 4     | <u> </u> | +  | 135        | _        | Н               |   | <u> </u> | $\vdash$  | Щ        | 4        |          | $\dashv$  |
| $\square$ | 36       | Ц         | 4         | +       | $\perp$ | 4            | 4                       | -        |          |          | _    |       |  | 86       | 1                 | +       | +        | +       | ┼              | Н        | $\vdash$        |               | 4     | $\vdash$ |    | 136        |          | Н               |   | <u> </u> | $\vdash$  | Н        | -        | $\dashv$ | $\dashv$  |
| <u> </u>  | 37       | Ц         | $\perp$   | +       | +       | 4            | 4                       | _        |          |          |      |       |  | 87       | $\vdash$          | $\perp$ | +        | ╁       | +              | Н        | $\vdash$        | +             | 4     | $\vdash$ | +  | 137        |          | $\vdash \vdash$ |   |          | $\vdash$  | Н        |          | $\dashv$ | $\dashv$  |
| <u></u>   | 38       | Ц         | $\bot$    | +       | $\perp$ | $\downarrow$ | 4                       |          |          |          |      |       |  | 88       | +                 | +       | +        | -}-     | +              | Н        | $\vdash$        |               | 4     | $\vdash$ |    | 138        |          | $\vdash \vdash$ |   |          | $\vdash$  | Н        | $\dashv$ | $\dashv$ | ᅴ         |
|           | 39       | Н         | $\perp$   | 4-      | 4       | - -          | +                       | $\dashv$ | -        |          |      |       |  | 89       | $\vdash$          | +       | -        | +-      | -              | H        | -               | -             | -     | $\vdash$ |    | 139<br>140 | -        | $\vdash \vdash$ |   |          |           |          | $\dashv$ | $\dashv$ | ᅱ         |
| <u> </u>  | 40       | Н         | +         | +       | 4       | +            | +                       | $\dashv$ | -        | $\dashv$ |      |       |  | 90       | $\vdash$          | +       | +        | +       | +              | $\vdash$ | $\vdash$        | +             | -     | -        |    |            | _        | $\vdash$        |   |          |           | $\vdash$ | $\dashv$ |          | $\dashv$  |
|           | 41       | dash      | +-        |         | +       | +            | +                       |          | -        |          |      |       |  | 91       | +                 | +       | +        | +       | ┼              | Н        | $\vdash$        | +             | -     | $\vdash$ |    | 141<br>142 |          | $\vdash$        |   |          |           | $\vdash$ | -        | $\dashv$ | $\dashv$  |
| <u> </u>  | 42       | Н         | 1         | +       | +       | +            | 4                       | $\dashv$ |          | -        | _    |       |  | 92       | ╀                 | +-      | +        | +       | +              | Н        | <del>-  -</del> |               | -     | $\vdash$ | +  | 142        | _        | $\vdash$        |   | -        | $\vdash$  | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$  |
| ļ         | 43       | Н         | ╀         | +       | +       | +            | +                       | -+       |          | -        | _    |       |  | 93       | ╀                 | +       | +-       | +-      | ╁              | $\vdash$ | $\vdash$        | +             | -     | $\vdash$ | +  | 144        |          | $\vdash$        | _ | -        | $\vdash$  | $\vdash$ | -        |          | $\dashv$  |
|           | 44       | Н         | ╁         | +       | +       | +            | +                       | -+       |          | -        | _    |       |  | 94<br>95 | +                 | +       | +-       | +       | ╁              | Н        | $\vdash \vdash$ | +             | -     | $\vdash$ | +  | 145        | -        | Н               |   |          | Н         | Н        | $\dashv$ | -        | $\dashv$  |
|           | 45       | Н         | +         | +       | +       | +            | +                       | $\dashv$ | $\dashv$ |          | _    |       |  | 96       | +                 | +       | +-       | +       | +              | Н        | $\vdash$        | +             | 1     | -        | +, | 146        | -        | $\vdash$        |   | -        | Н         | $\vdash$ | $\dashv$ |          | $\dashv$  |
| <u> </u>  | 46       | Н         | +         | +       | +       | +            | +                       |          |          | -        |      |       | <del></del>                                      | 97       | +                 | +       | +        | +       | +              | Н        | $\vdash$        | +             | 1     | -        | +, | 147        | -        | $\vdash$        |   |          | Н         | $\vdash$ | $\dashv$ | ┪        | $\dashv$  |
| <b> </b>  | 47<br>48 | $\dashv$  | +         | +       | +       | +            | +                       | $\dashv$ | -        | -        |      |       | <u> </u>   | 98       | +                 | +       | +        | +       | +              | Н        | -               | +             | -     | $\vdash$ | +. | 148        | $\dashv$ | $\vdash$        |   | —        | Н         | $\vdash$ | -        | 一        | $\dashv$  |
|           | 48       | H         | +         | +       | +       | +            | +                       |          | $\dashv$ |          |      |       | <u> </u>   | 99       | +                 | +       | +        | +       | $\vdash$       | $\vdash$ | $\vdash$        | +             | -     | <u> </u> |    | 149        | $\dashv$ | $\vdash$        |   |          | $\vdash$  | $\vdash$ | -        | $\dashv$ | ⊣         |
|           | 50       | 7         | +         | +-      | +       | +            | +                       | $\dashv$ | $\dashv$ | $\dashv$ |      |       | $\vdash$   | 100      | +                 | +       | +        | +       | +              | $\vdash$ | -               | +             | 1     | -        | +  | 150        | $\dashv$ | H               |   |          |           | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$  |
|           | วบ       | Ļ         | _         |         | _[_     |              |                         |          |          |          |      | ::::: | Ц  | 100      | _                 | 1       |          |         |                |          | oxdot           | L_            | J:::: |          |    |            |          | ᆫ               |   |          |           |          | _        |          |           |